



SEQUENCE LISTING

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FATTAH, OMAR

<120> PEPTABODY FOR CANCER TREATMENT

<130> KZI-002US

<140> 10/551,977
<141> 2005-10-04

<150> PCT/IB04/001049
<151> 2004-04-05

<150> 60/460,490
<151> 2003-04-04

<160> 37

<170> PatentIn Ver. 3.3

<210> 1
<211> 417
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptabody EGF: MDP01

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cagatgctgc gtgaactgca ggaaccaac gctgctctgc aggacgttcg tgactacctg 120
cgtcagctgg ttcgtgaaat caccttcctg aaaaacaccg ttatggaatg cgacgcttgc 180
ggtatgcagc agactagtcc gcctactccg ccaactccgt ctccgtctac tccgccaaact 240
ccgtctccga gatccaattc tgactctgaa tgcccattgt ctcacgacgg ttactgcttg 300
cacgacggtg tttgcatgta catcgaagct ctggacaaat acgcttgcaa ctgcgttggt 360
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<210> 2
<211> 138
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptabody EGF: MDP01

<400> 2
Met Tyr Ser Phe Glu Asp Leu Ala Ser His His His His His His Gly
1 5 10 15

Asp Leu Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala
 20 25 30
 Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr
 35 40 45
 Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln
 50 55 60
 Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
 65 70 75 80
 Pro Ser Pro Arg Ser Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp
 85 90 95
 Gly Tyr Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp
 100 105 110
 Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln
 115 120 125
 Tyr Arg Asp Leu Lys Trp Trp Glu Leu Arg
 130 135

<210> 3
 <211> 333
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptabody GBP: MDP03

<400> 3
 atgtatagct ttgaagatct ggctagccat catcatcacc atcatggaga cctgggcccg 60
 cagatgctgc gtgaactgca ggaaaccaac gctgctctgc aggacgttcg tgactacctg 120
 cgtcagctgg ttcgtgaaat caccttcctg aaaaacaccg ttatggaatg cgacgcttgc 180
 ggtatgcagc agactagtcc gcctactccg ccaactccgt ctccgtctac tccgccaact 240
 ccgtctccga gatctgaaaa cttttccggc ggctgctggt cgggctatat gcgtacccccg 300
 gatggccggt gcaaaccgac cttttatcag taa 333

<210> 4
 <211> 110
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptabody GBP: MDP03

<400> 4
 Met Tyr Ser Phe Glu Asp Leu Ala Ser His His His His His His Gly
 1 5 10 15
 Asp Leu Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala
 20 25 30

Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr
 35 40 45
 Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln
 50 55 60
 Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
 65 70 75 80
 Pro Ser Pro Arg Ser Glu Asn Phe Ser Gly Gly Cys Val Ala Gly Tyr
 85 90 95
 Met Arg Thr Pro Asp Gly Arg Cys Lys Pro Thr Phe Tyr Gln
 100 105 110

<210> 5
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 5
 Tyr Ser Phe Glu
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<210> 6
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 6
 Tyr Ser Phe Glu Asp Leu
 1 5

<210> 7
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 7
 Tyr Ser Phe Glu Asp Leu Tyr
 1 5

<210> 8
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 8
 Tyr Ser Phe Glu Asp Leu Tyr Arg
 1 5

<210> 9
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 9
 Tyr Ser Phe Glu Asp Leu Tyr Arg Arg
 1 5

<210> 10
 <211> 23
 <212> PRT
 <213> Pseudoplusia includens

<400> 10
 Glu Asn Phe Asn Gly Gly Cys Leu Ala Gly Tyr Met Arg Thr Ala Asp
 1 5 10 15

Gly Arg Cys Lys Pro Thr Phe
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<210> 11
 <211> 25
 <212> PRT
 <213> Spodoptera litura

<400> 11
 Glu Asn Phe Ser Gly Gly Cys Val Ala Gly Tyr Met Arg Thr Pro Asp
 1 5 10 15

Gly Arg Cys Lys Pro Thr Phe Tyr Gln
 20 25

<210> 12
 <211> 23
 <212> PRT
 <213> Mamestra brassicae

<400> 12
 Glu Asn Phe Ala Ala Gly Cys Ala Thr Gly Tyr Gln Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Pro Thr Phe
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<210> 13
 <211> 23
 <212> PRT
 <213> Spodoptera eridania

<400> 13
 Glu Asn Phe Ala Gly Gly Cys Ala Thr Gly Tyr Leu Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Pro Thr Phe
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<210> 14
 <211> 23
 <212> PRT
 <213> Manduca sexta

<400> 14
 Glu Asn Phe Ala Gly Gly Cys Ala Ala Gly Tyr Leu Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Pro Thr Phe
 20

<210> 15
 <211> 23
 <212> PRT
 <213> Manduca sexta

<400> 15
 Glu Asn Phe Ala Gly Gly Cys Ala Thr Gly Phe Leu Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Pro Thr Phe
 20

<210> 16
 <211> 23
 <212> PRT
 <213> Heliothis virescens

<400> 16

Glu Asn Phe Ser Gly Gly Cys Ile Pro Gly Tyr Met Arg Thr Ala Asp
 1 5 10 15

Gly Arg Cys Lys Pro Thr Tyr
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<210> 17

<211> 23

<212> PRT

<213> *Heliothis virescens*

<400> 17

Glu Asn Phe Ala Gly Gly Cys Ile Pro Gly Tyr Met Arg Thr Ala Asp
 1 5 10 15

Gly Arg Cys Lys Pro Thr Tyr
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<210> 18

<211> 24

<212> PRT

<213> *Trichoplusia ni*

<400> 18

Glu Asn Phe Ser Gly Gly Cys Leu Ala Gly Tyr Met Arg Thr Ala Asp
 1 5 10 15

Gly Arg Cys Lys Pro Thr Phe Gly
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<210> 19

<211> 23

<212> PRT

<213> *Trichoplusia ni*

<400> 19

Glu Asn Phe Ser Gly Gly Cys Leu Ala Gly Tyr Met Arg Thr Ala Asp
 1 5 10 15

Gly Arg Cys Lys Pro Thr Phe
 20

<210> 20

<211> 23

<212> PRT

<213> *Antheraea yamamai*

<400> 20

Glu Asn Phe Ala Gly Gly Cys Ala Thr Gly Phe Met Arg Thr Ala Asp
 1 5 10 15

Gly Arg Cys Lys Pro Thr Phe
 20

<210> 21
 <211> 23
 <212> PRT
 <213> Spodoptera eridania

<400> 21
 Glu Asn Phe Ala Val Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Pro Thr Phe
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<210> 22
 <211> 23
 <212> PRT
 <213> Spodoptera eridania

<400> 22
 Glu Asn Phe Ala Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Ala Thr Phe
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<210> 23
 <211> 23
 <212> PRT
 <213> Spodoptera eridania

<400> 23
 Glu Asn Phe Ala Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Pro Thr Phe
 20

<210> 24
 <211> 23
 <212> PRT
 <213> Spodoptera eridania

<400> 24
 Glu Asn Phe Val Gly Gly Cys Thr Pro Gly Tyr Gln Arg Thr Ala Asp
 1 5 10 15
 Gly Arg Cys Lys Pro Thr Phe
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<210> 25
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 25

Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe Cys
 1 5 10 15
 Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala Cys
 20 25 30
 Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp Leu
 35 40 45
 Leu Ala
 50

<210> 26

<211> 84

<212> PRT

<213> Homo sapiens

<400> 26

Ser Val Arg Val Glu Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu
 1 5 10 15
 Ser Glu Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys
 20 25 30
 Asn Gly Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala
 35 40 45
 Glu Phe Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His
 50 55 60
 Leu Glu Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg
 65 70 75 80
 Cys Gly Glu Lys

<210> 27

<211> 86

<212> PRT

<213> Homo sapiens

<400> 27

Asp Leu Gln Glu Ala Asp Leu Asp Leu Leu Arg Val Thr Leu Ser Ser
 1 5 10 15
 Lys Pro Gln Ala Leu Ala Thr Pro Asn Lys Glu Glu His Gly Lys Arg
 20 25 30
 Lys Lys Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg
 35 40 45
 Lys Tyr Lys Asp Phe Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu
 50 55 60

Leu Arg Ala Pro Ser Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg
 65 70 75 80

Cys His Gly Leu Ser Leu
 85

<210> 28
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 28
 Asp Gly Asn Ser Thr Arg Ser Pro Glu Thr Asn Gly Leu Leu Cys Gly
 1 5 10 15
 Asp Pro Glu Glu Asn Cys Ala Ala Thr Thr Thr Gln Ser Lys Arg Lys
 20 25 30
 Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys
 35 40 45
 Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys Val Cys
 50 55 60
 Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Leu Phe Tyr
 65 70 75 80

<210> 29
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 29
 Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys
 1 5 10 15
 Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser Cys
 20 25 30
 Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp Leu
 35 40 45
 Phe Tyr
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<210> 30
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 30

Tyr Ser Phe Glu Asp
1 5

<210> 31

<211> 83

<212> PRT

<213> Homo sapiens

<400> 31

Met Tyr Ser Phe Glu Asp Leu His His His His His His Gly Asp Leu
1 5 10 15Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln
20 25 30Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr Phe Leu
35 40 45Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln Thr Ser
50 55 60Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr Pro Ser
65 70 75 80

Pro Arg Ser

<210> 32

<211> 136

<212> PRT

<213> Homo sapiens

<400> 32

Met Tyr Ser Phe Glu Asp Leu His His His His His His Gly Asp Leu
1 5 10 15Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala Leu Gln
20 25 30Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr Phe Leu
35 40 45Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln Thr Ser
50 55 60Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr Pro Ser
65 70 75 80Pro Arg Ser Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly His
85 90 95

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr
 100 105 110

Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg
 115 120 125

Asp Leu Lys Trp Trp Glu Leu Arg
 130 135

<210> 33
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 33
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 cagatgctgc gtgaactgca ggaaaccaac gctgctctgc aggacgttcg tgactacctg 120
 cgtcagctgg ttcgtgaaat caccttcctg aaaaacacgc ttatggaatg cgacgcttgc 180
 ggtatgcagc agactagtcc gcctactcgc ccaactccgt ctccgtctac tccgccaact 240
 ccgtctccga gatcttaa 258

<210> 34
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 34
 Met Tyr Ser Phe Glu Asp Leu Ala Ser His His His His His His Gly
 1 5 10 15
 Asp Leu Gly Pro Gln Met Leu Arg Glu Leu Gln Glu Thr Asn Ala Ala
 20 25 30
 Leu Gln Asp Val Arg Asp Tyr Leu Arg Gln Leu Val Arg Glu Ile Thr
 35 40 45
 Phe Leu Lys Asn Thr Val Met Glu Cys Asp Ala Cys Gly Met Gln Gln
 50 55 60
 Thr Ser Pro Pro Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
 65 70 75 80
 Pro Ser Pro Arg Ser
 85

<210> 35
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 35
Ser Phe Glu Asp Leu
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<210> 36
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 36
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<210> 37
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 37
His His His His His His
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